

B4 15M QPSK 75@0 CH 20025



B4 15M 16QAM 75@0 CH 20025



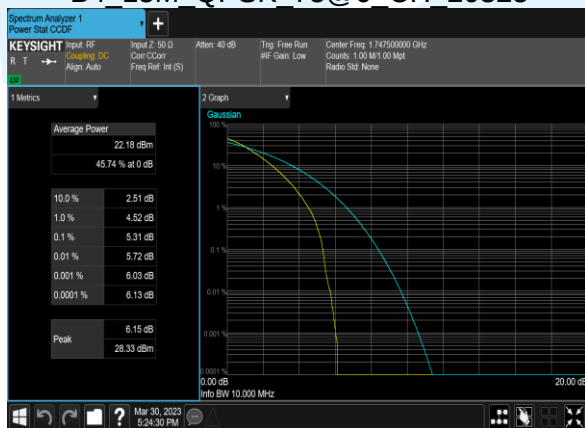
B4 15M QPSK 75@0 CH 20175



B4 15M 16QAM 75@0 CH 20175



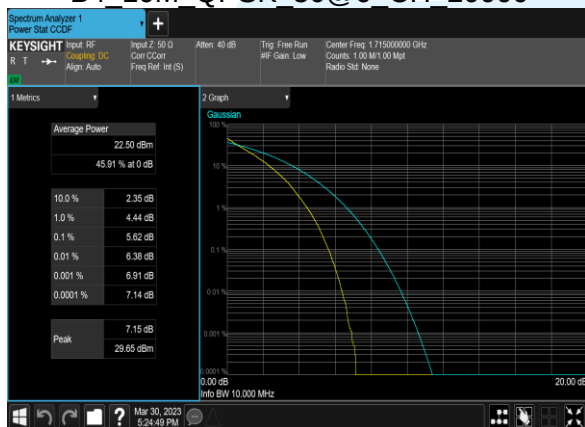
B4 15M QPSK 75@0 CH 20325



B4 15M 16QAM 75@0 CH 20325



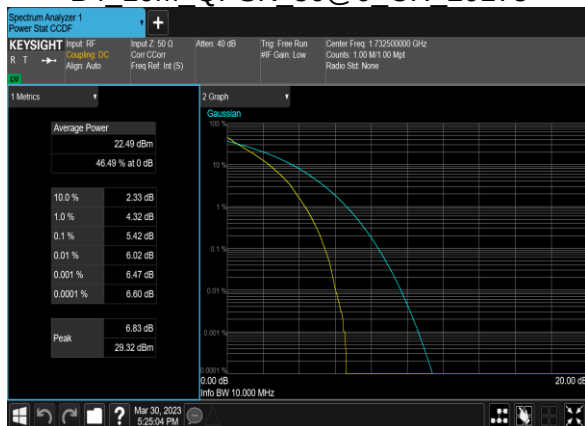
B4 10M QPSK 50@0 CH 20000



B4 10M 16QAM 50@0 CH 20000



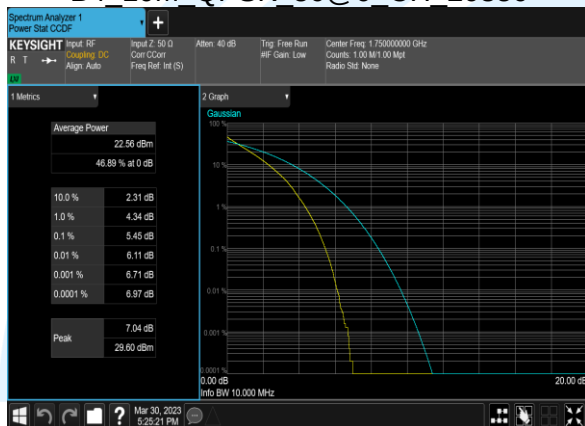
B4 10M QPSK 50@0 CH 20175



B4 10M 16QAM 50@0 CH 20175



B4 10M QPSK 50@0 CH 20350



B4 10M 16QAM 50@0 CH 20350



B4 5M QPSK 25@0 CH 19975



B4 5M 16QAM 25@0 CH 19975



B4 5M QPSK 25@0 CH 20175



B4 5M 16QAM 25@0 CH 20175



B4 5M QPSK 25@0 CH 20375



B4 5M 16QAM 25@0 CH 20375



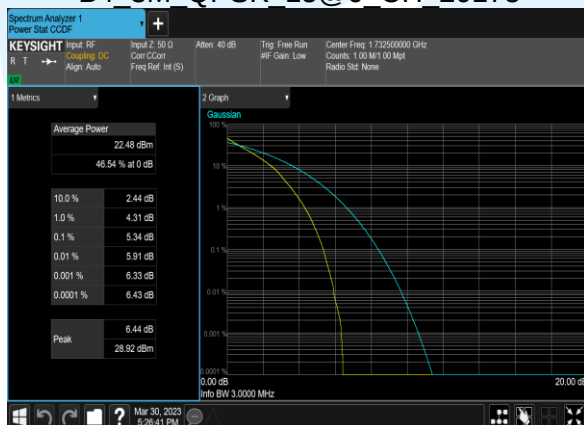
B4 3M QPSK 15@0 CH 19965



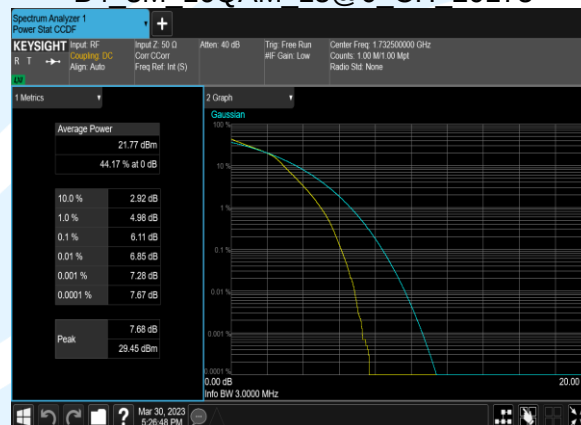
B4 3M 16QAM 15@0 CH 19965



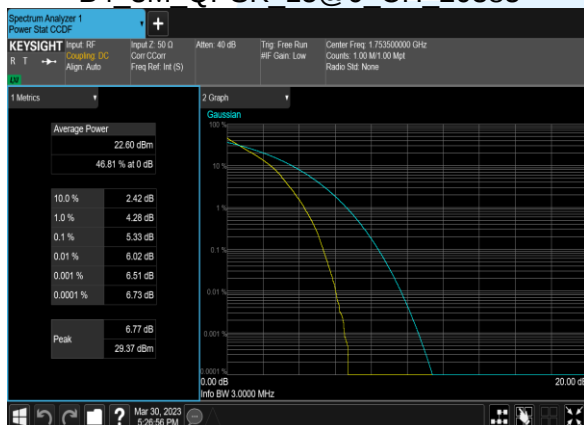
B4 3M QPSK 15@0 CH 20175



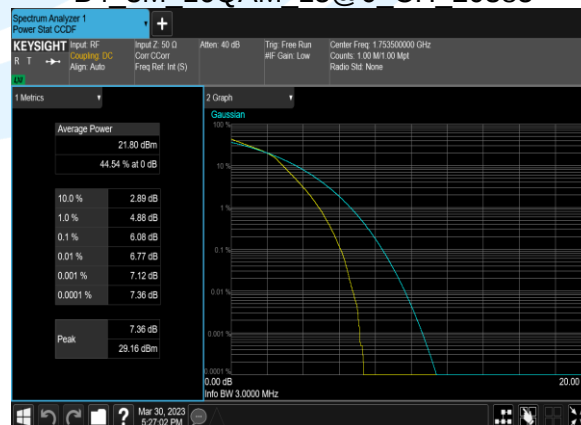
B4 3M 16QAM 15@0 CH 20175



B4 3M QPSK 15@0 CH 20385



B4 3M 16QAM 15@0 CH 20385



B4 1.4M QPSK 6@0 CH 19957



B4 1.4M 16QAM 6@0 CH 19957



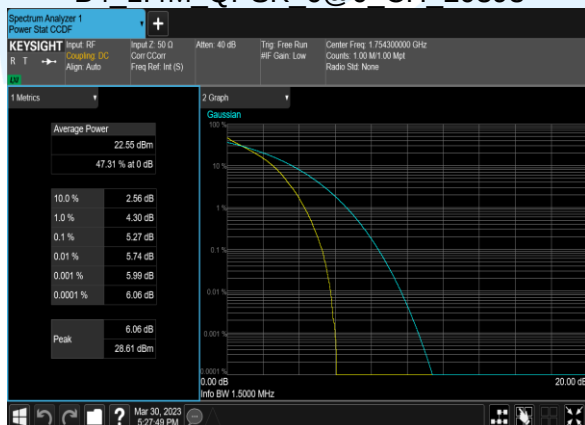
B4 1.4M QPSK 6@0 CH 20175



B4 1.4M 16QAM 6@0 CH 20175



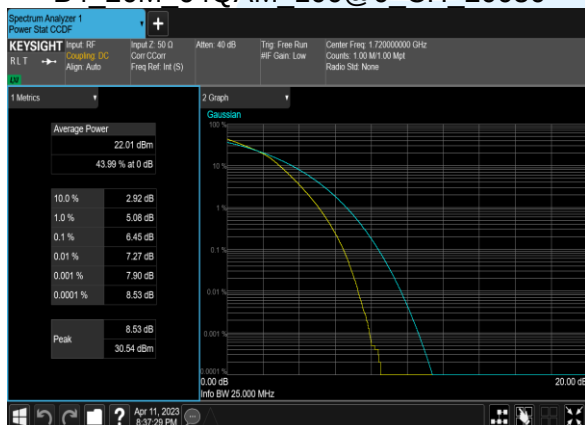
B4 1.4M QPSK 6@0 CH 20393



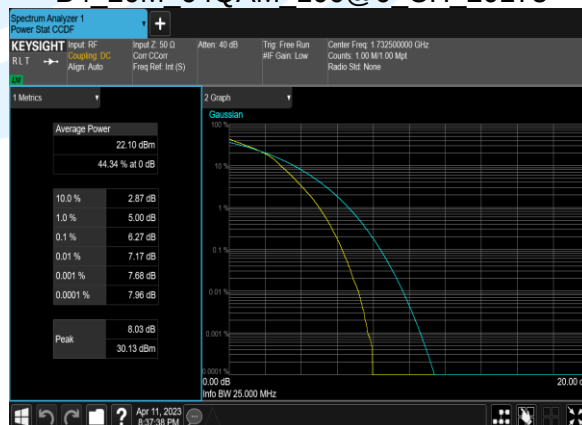
B4 1.4M 16QAM 6@0 CH 20393



B4 20M 64QAM 100@0 CH 20050



B4 20M 64QAM 100@0 CH 20175



B4 20M 64QAM 100@0 CH 20300



B4 15M 64QAM 75@0 CH 20025



B4 15M 64QAM 75@0 CH 20175



B4 15M 64QAM 75@0 CH 20325



B4 10M 64QAM 50@0 CH 20000



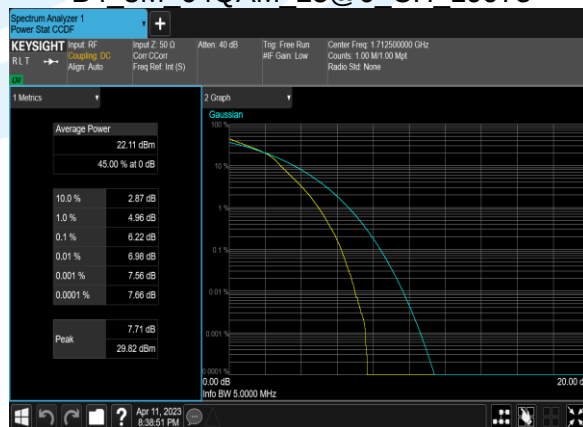
B4 10M 64QAM 50@0 CH 20175



B4 10M 64QAM 50@0 CH 20350



B4 5M 64QAM 25@0 CH 19975



B4 5M 64QAM 25@0 CH 20175



B4 5M 64QAM 25@0 CH 20375



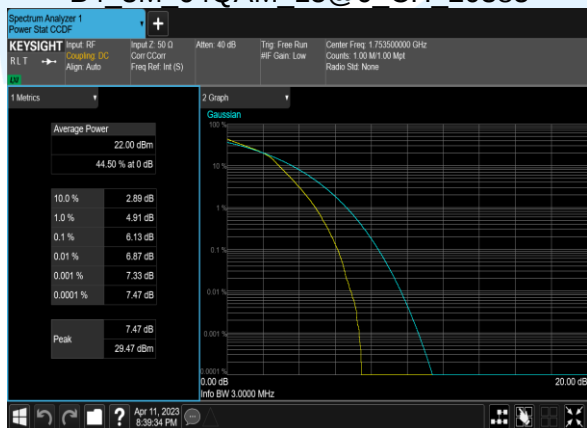
B4 3M 64QAM 15@0 CH 19965



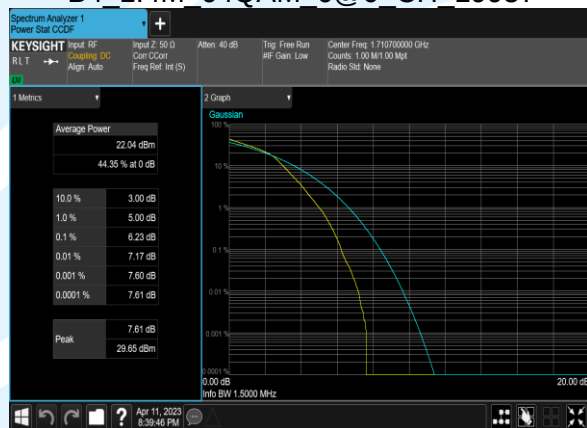
B4 3M 64QAM 15@0 CH 20175



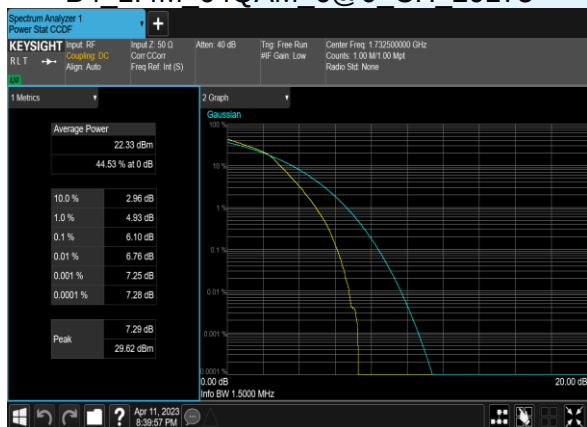
B4 3M 64QAM 15@0 CH 20385



B4 1.4M 64QAM 6@0 CH 19957



B4 1.4M 64QAM 6@0 CH 20175



B4 1.4M 64QAM 6@0 CH 20393



Occupied Bandwidth

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
4	20.0	20050	1720.0	QPSK	100@0	17.903	18.89
4	20.0	20050	1720.0	16QAM	100@0	17.903	19.02
4	20.0	20175	1732.5	QPSK	100@0	17.891	19.26
4	20.0	20175	1732.5	16QAM	100@0	17.938	19.08
4	20.0	20300	1745.0	QPSK	100@0	17.912	19.34
4	20.0	20300	1745.0	16QAM	100@0	17.904	18.93
4	15.0	20025	1717.5	QPSK	75@0	13.430	14.54
4	15.0	20025	1717.5	16QAM	75@0	13.438	14.62
4	15.0	20175	1732.5	QPSK	75@0	13.404	14.41
4	15.0	20175	1732.5	16QAM	75@0	13.438	14.59
4	15.0	20325	1747.5	QPSK	75@0	13.413	14.42
4	15.0	20325	1747.5	16QAM	75@0	13.364	14.45
4	10.0	20000	1715.0	QPSK	50@0	8.9686	9.647
4	10.0	20000	1715.0	16QAM	50@0	8.9522	9.733
4	10.0	20175	1732.5	QPSK	50@0	8.9419	9.678
4	10.0	20175	1732.5	16QAM	50@0	8.9407	9.689
4	10.0	20350	1750.0	QPSK	50@0	8.9353	9.617
4	10.0	20350	1750.0	16QAM	50@0	8.9568	9.726
4	5.0	19975	1712.5	QPSK	25@0	4.4660	4.892
4	5.0	19975	1712.5	16QAM	25@0	4.4552	4.831
4	5.0	20175	1732.5	QPSK	25@0	4.4468	4.859
4	5.0	20175	1732.5	16QAM	25@0	4.4647	4.857
4	5.0	20375	1752.5	QPSK	25@0	4.4610	4.811
4	5.0	20375	1752.5	16QAM	25@0	4.4571	4.887
4	3.0	19965	1711.5	QPSK	15@0	2.6930	2.961
4	3.0	19965	1711.5	16QAM	15@0	2.6833	2.970
4	3.0	20175	1732.5	QPSK	15@0	2.6900	2.990
4	3.0	20175	1732.5	16QAM	15@0	2.6820	2.965
4	3.0	20385	1753.5	QPSK	15@0	2.6861	2.962
4	3.0	20385	1753.5	16QAM	15@0	2.6865	2.997
4	1.4	19957	1710.7	QPSK	6@0	1.0782	1.217
4	1.4	19957	1710.7	16QAM	6@0	1.0788	1.223
4	1.4	20175	1732.5	QPSK	6@0	1.0790	1.219
4	1.4	20175	1732.5	16QAM	6@0	1.0775	1.207
4	1.4	20393	1754.3	QPSK	6@0	1.0767	1.221
4	1.4	20393	1754.3	16QAM	6@0	1.0812	1.225
4	20.0	20050	1720.0	64QAM	100@0	17.896	19.13
4	20.0	20175	1732.5	64QAM	100@0	17.884	19.29
4	20.0	20300	1745.0	64QAM	100@0	17.914	19.20
4	15.0	20025	1717.5	64QAM	75@0	13.407	14.41
4	15.0	20175	1732.5	64QAM	75@0	13.434	14.73
4	15.0	20325	1747.5	64QAM	75@0	13.434	14.42
4	10.0	20000	1715.0	64QAM	50@0	8.9413	9.717
4	10.0	20175	1732.5	64QAM	50@0	8.9218	9.735
4	10.0	20350	1750.0	64QAM	50@0	8.9446	9.561
4	5.0	19975	1712.5	64QAM	25@0	4.4608	4.896
4	5.0	20175	1732.5	64QAM	25@0	4.4630	4.886
4	5.0	20375	1752.5	64QAM	25@0	4.4567	4.891
4	3.0	19965	1711.5	64QAM	15@0	2.6765	2.954
4	3.0	20175	1732.5	64QAM	15@0	2.6889	2.960
4	3.0	20385	1753.5	64QAM	15@0	2.6831	2.993
4	1.4	19957	1710.7	64QAM	6@0	1.0828	1.224
4	1.4	20175	1732.5	64QAM	6@0	1.0753	1.223
4	1.4	20393	1754.3	64QAM	6@0	1.0769	1.225

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

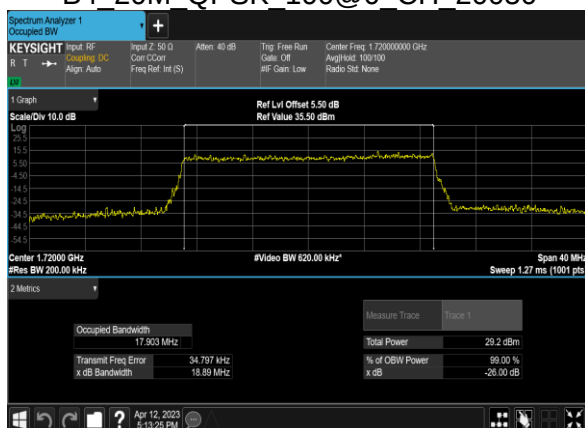
E-mail: info@uttlab.com

<http://www.uttlab.com>

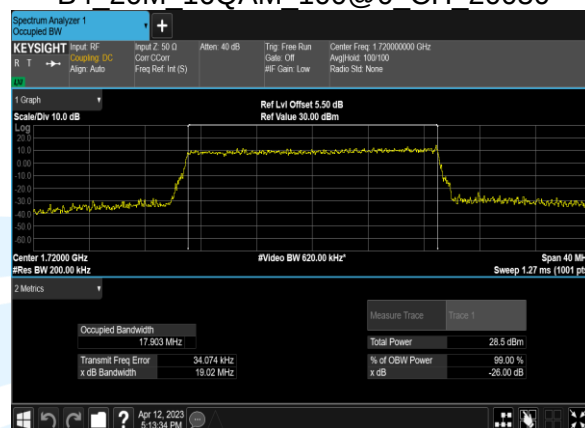
UTTR-RF-FCC4G-V1.1

Test Graphs

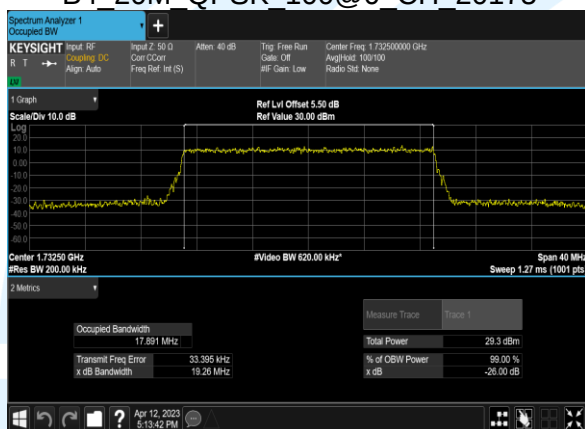
B4 20M QPSK 100@0 CH 20050



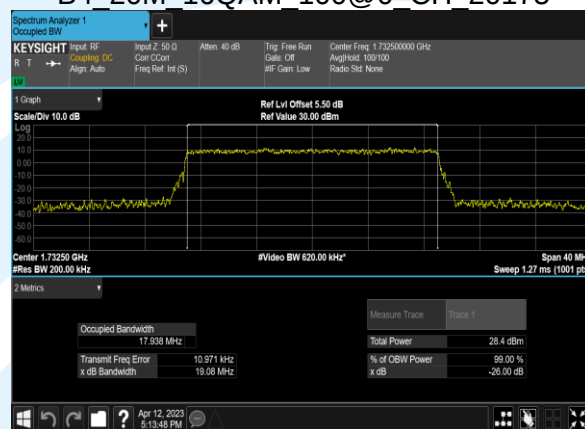
B4 20M 16QAM 100@0 CH 20050



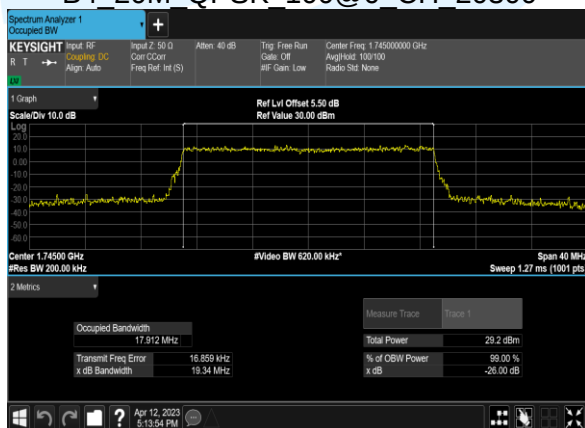
B4 20M QPSK 100@0 CH 20175



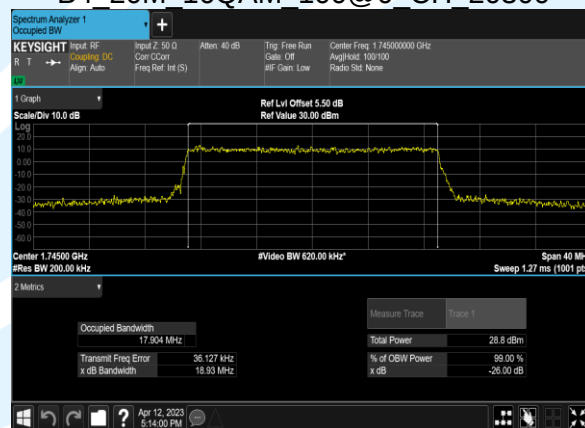
B4 20M 16QAM 100@0 CH 20175



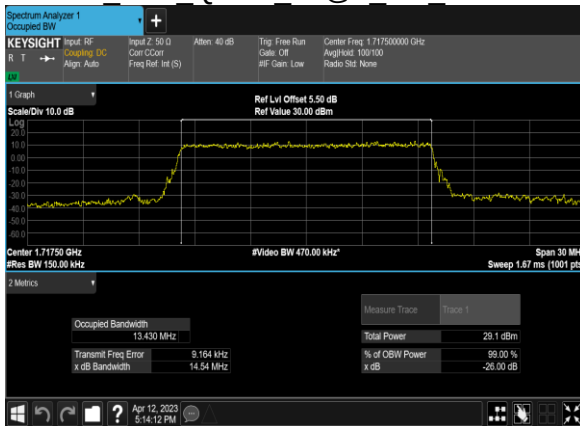
B4 20M QPSK 100@0 CH 20300



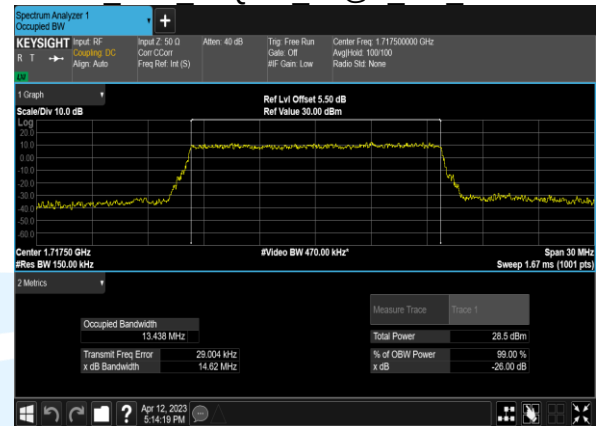
B4 20M 16QAM 100@0 CH 20300



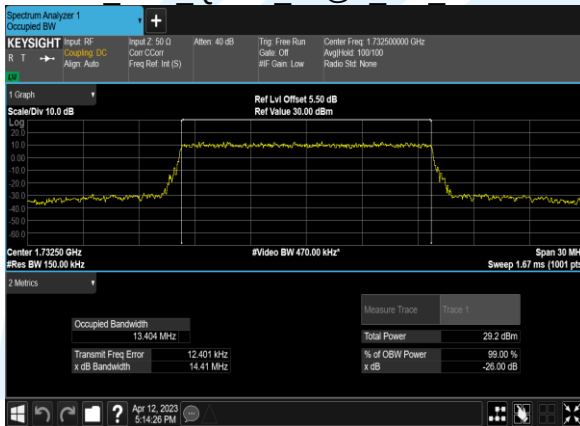
B4 15M QPSK 75@0 CH 20025



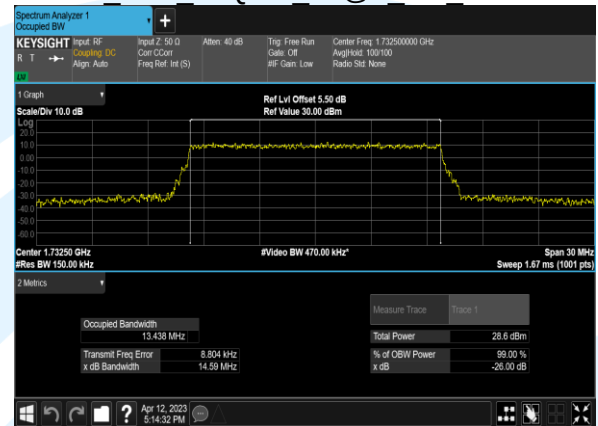
B4 15M 16QAM 75@0 CH 20025



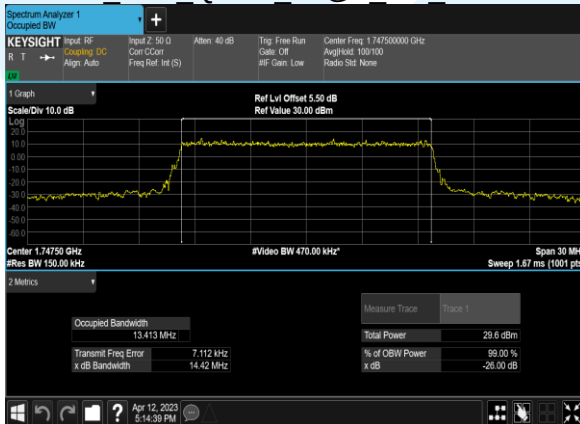
B4 15M QPSK 75@0 CH 20175



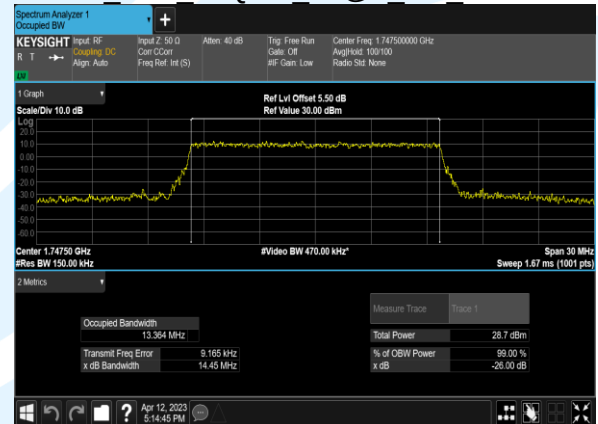
B4 15M 16QAM 75@0 CH 20175



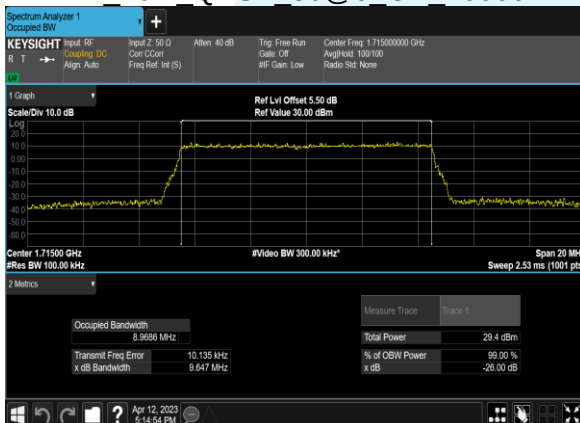
B4 15M QPSK 75@0 CH 20325



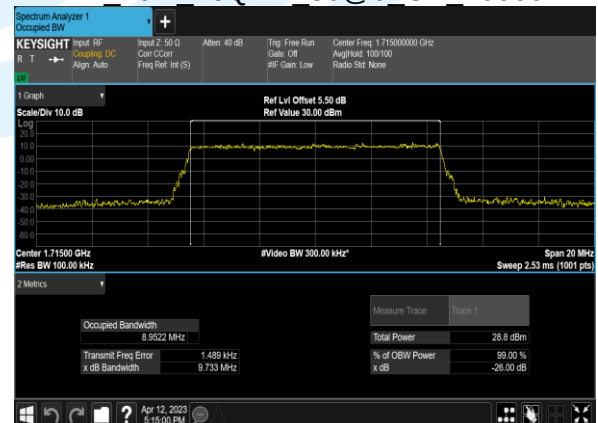
B4 15M 16QAM 75@0 CH 20325



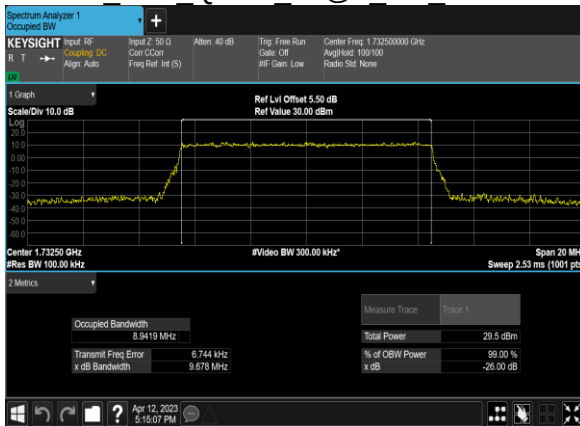
B4 10M QPSK 50@0 CH 20000



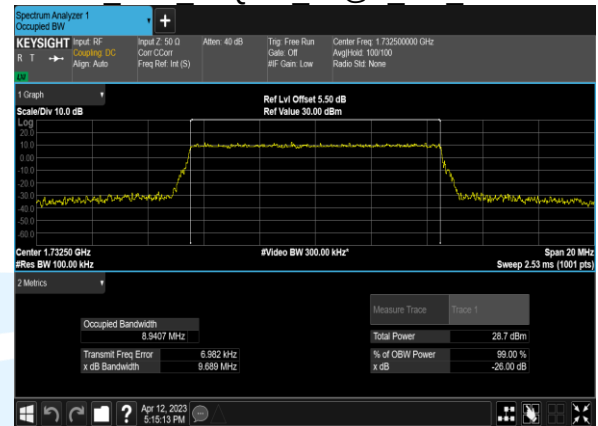
B4 10M 16QAM 50@0 CH 20000



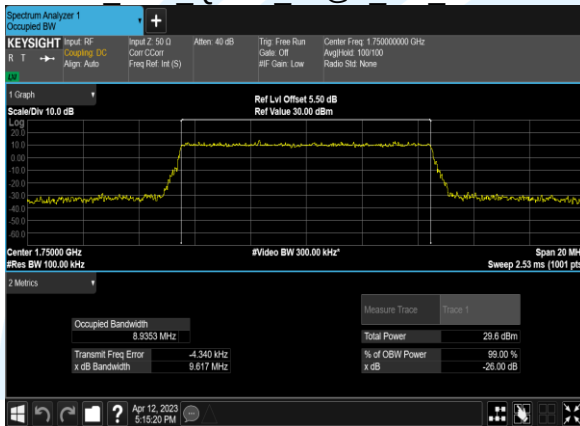
B4 10M QPSK 50@0 CH 20175



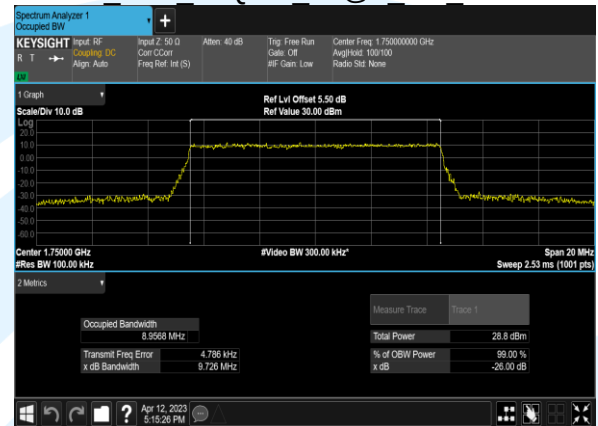
B4 10M 16QAM 50@0 CH 20175



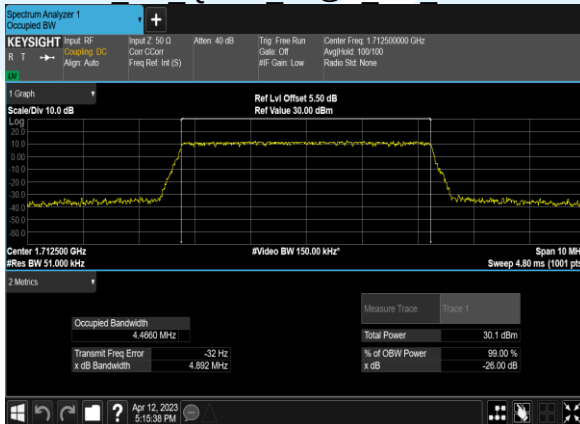
B4 10M QPSK 50@0 CH 20350



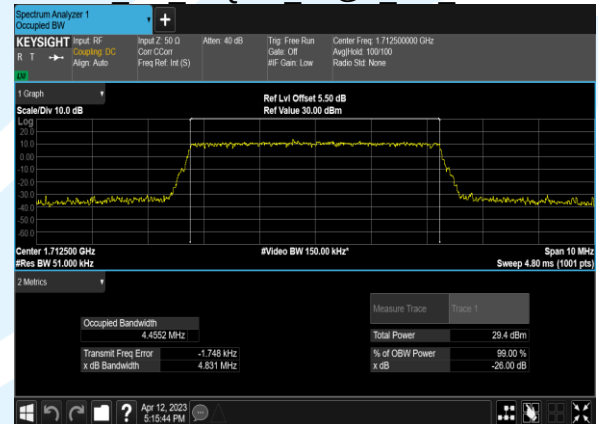
B4 10M 16QAM 50@0 CH 20350



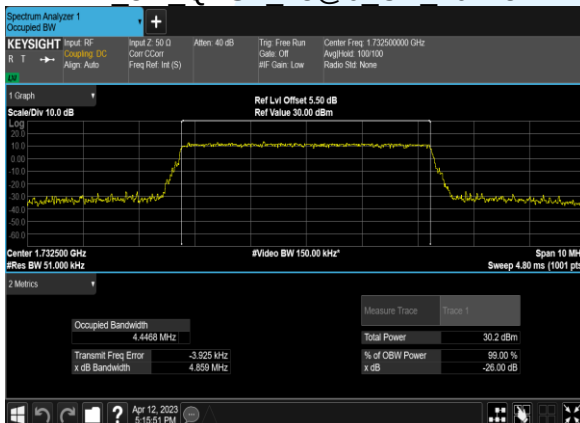
B4 5M QPSK 25@0 CH 19975



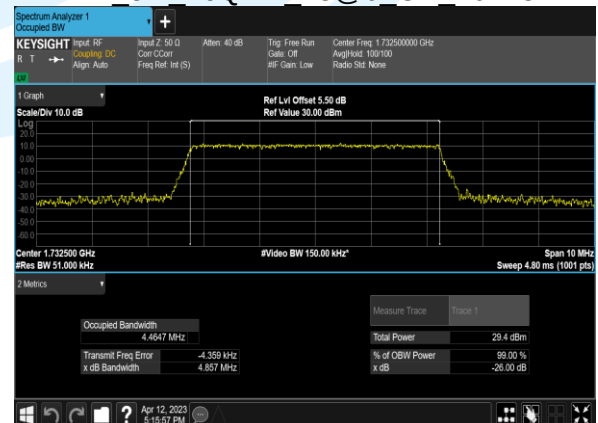
B4 5M 16QAM 25@0 CH 19975



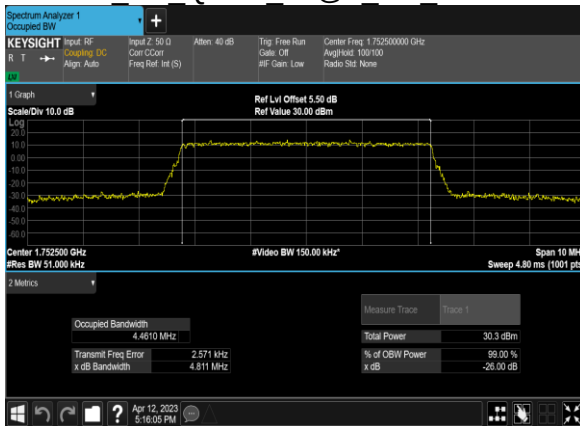
B4 5M QPSK 25@0 CH 20175



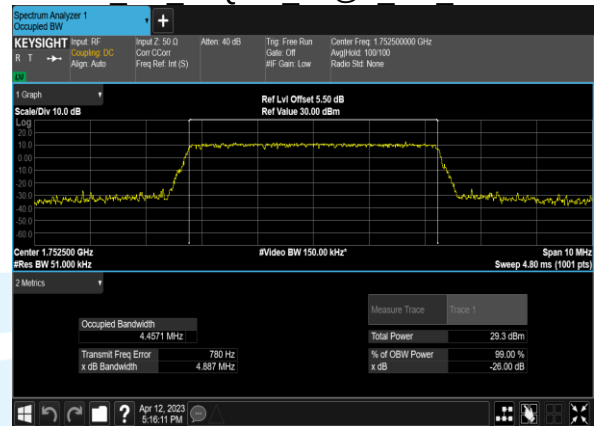
B4 5M 16QAM 25@0 CH 20175



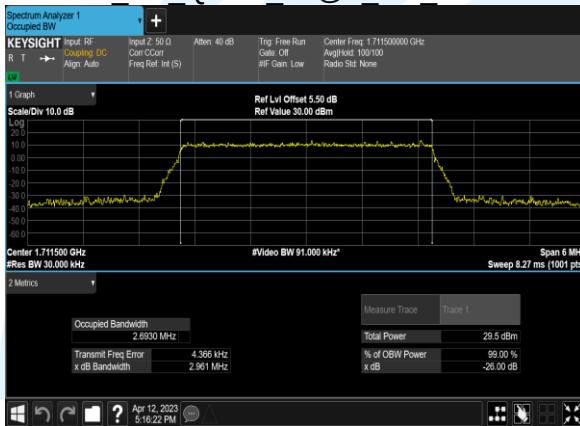
B4 5M QPSK 25@0 CH 20375



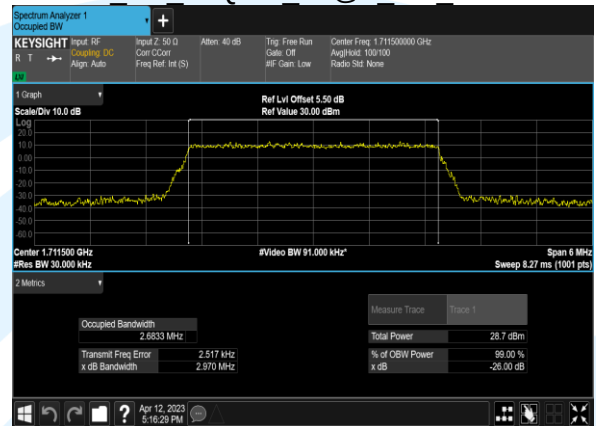
B4 5M 16QAM 25@0 CH 20375



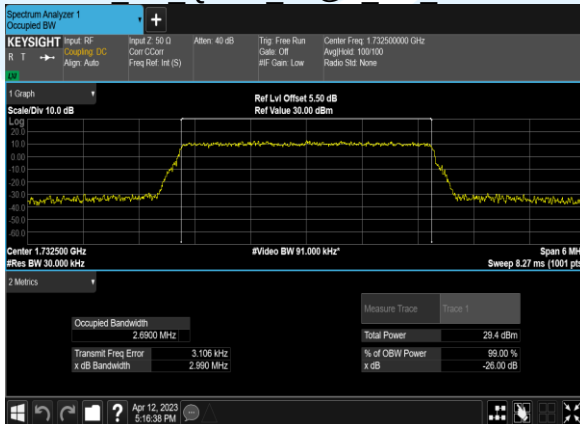
B4 3M QPSK 15@0 CH 19965



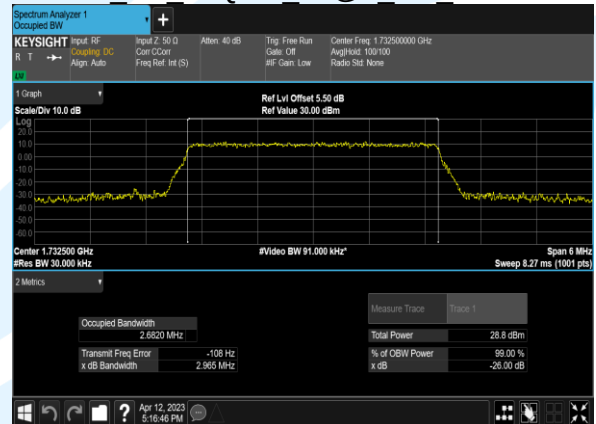
B4 3M 16QAM 15@0 CH 19965



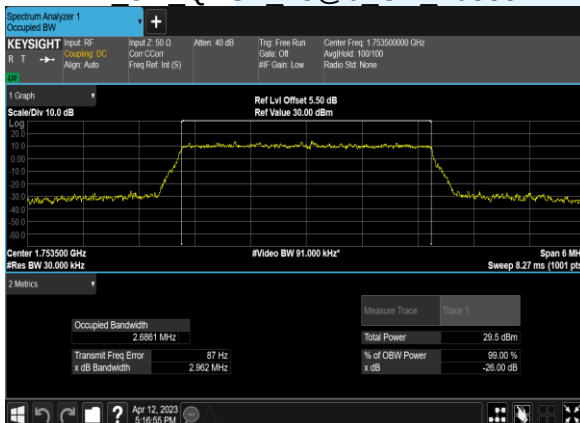
B4 3M QPSK 15@0 CH 20175



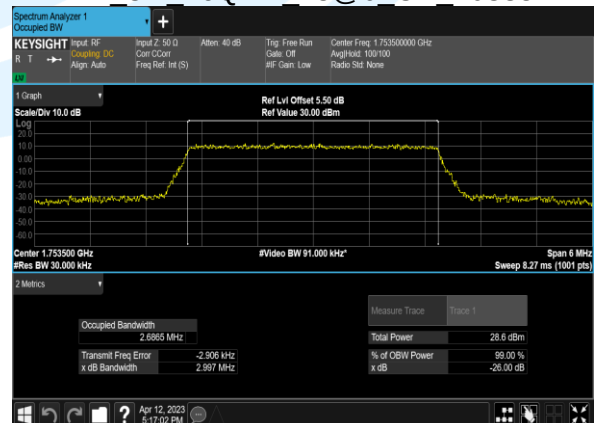
B4 3M 16QAM 15@0 CH 20175



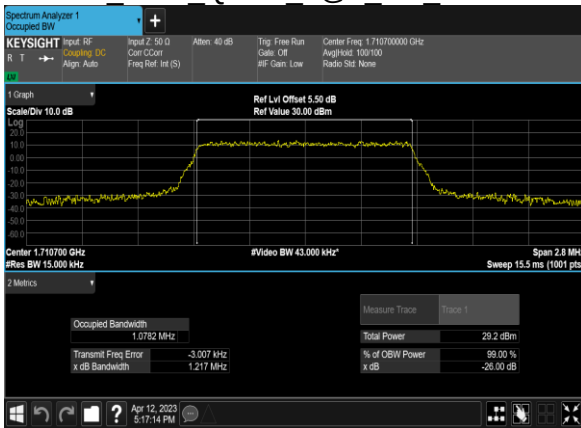
B4 3M QPSK 15@0 CH 20385



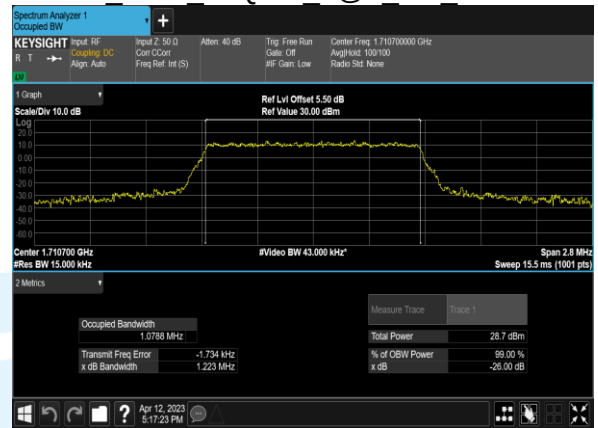
B4 3M 16QAM 15@0 CH 20385



B4 1.4M QPSK 6@0 CH 19957



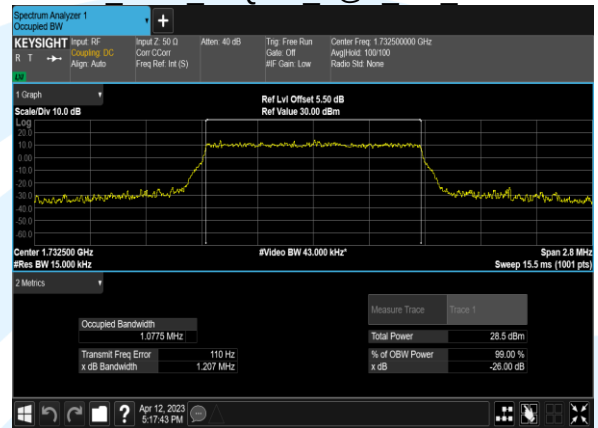
B4 1.4M 16QAM 6@0 CH 19957



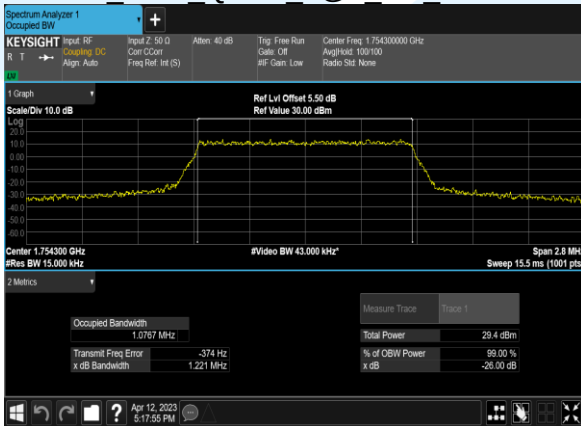
B4 1.4M QPSK 6@0 CH 20175



B4 1.4M 16QAM 6@0 CH 20175



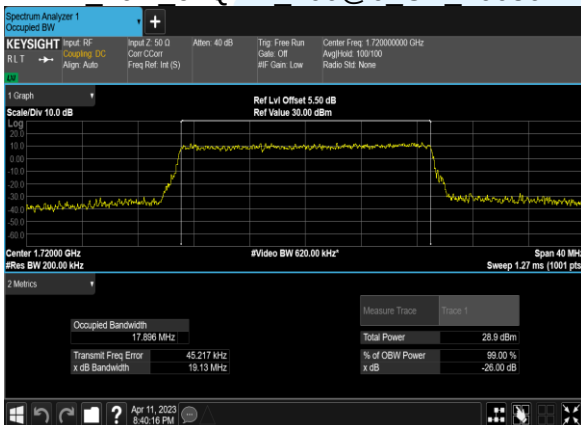
B4 1.4M QPSK 6@0 CH 20393



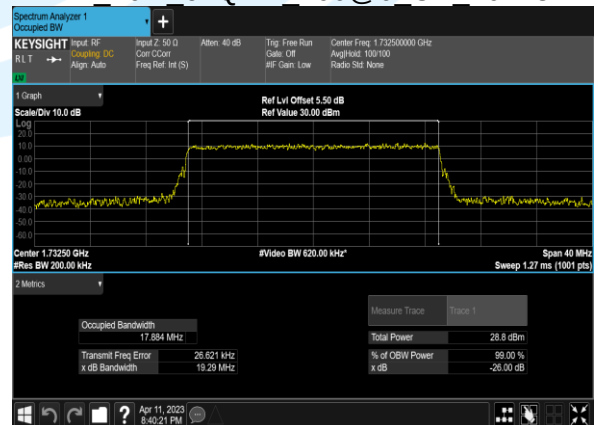
B4 1.4M 16QAM 6@0 CH 20393



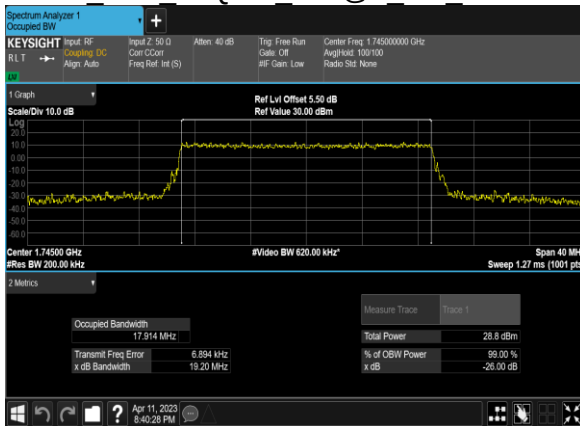
B4 20M 64QAM 100@0 CH 20050



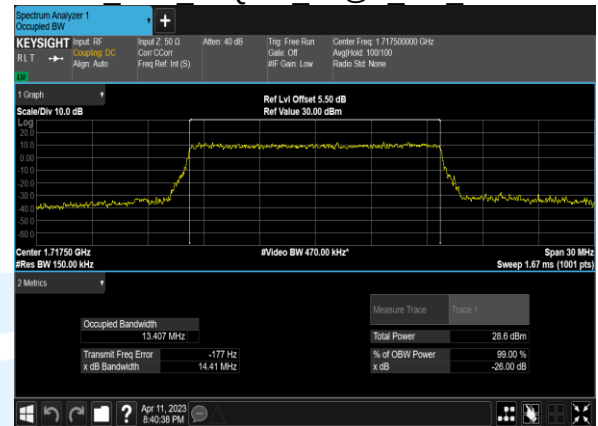
B4 20M 64QAM 100@0 CH 20175



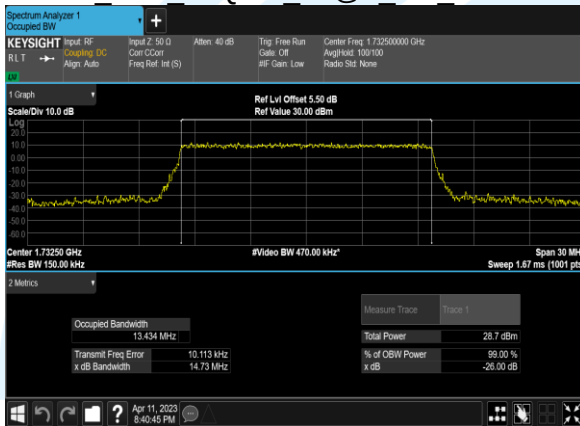
B4 20M 64QAM 100@0 CH 20300



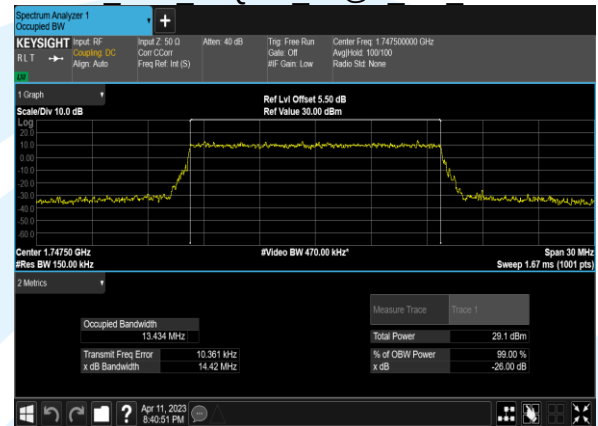
B4 15M 64QAM 75@0 CH 20025



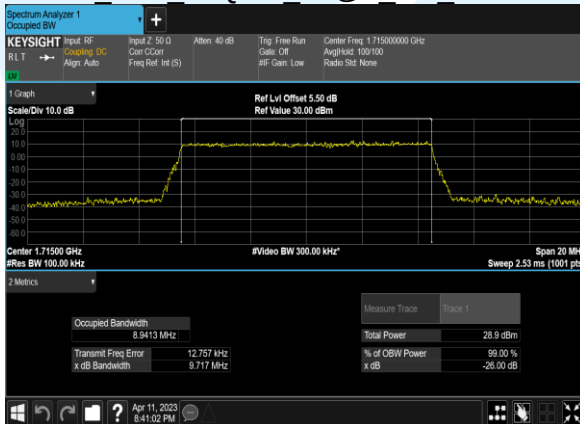
B4 15M 64QAM 75@0 CH 20175



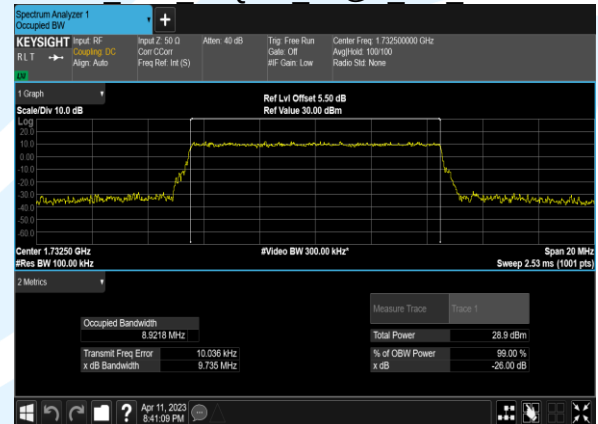
B4 15M 64QAM 75@0 CH 20325



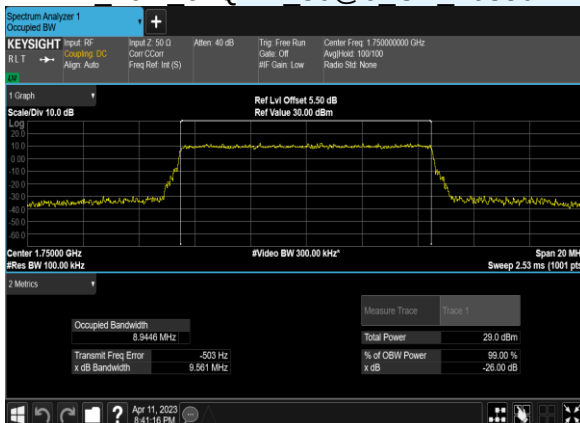
B4 10M 64QAM 50@0 CH 20000



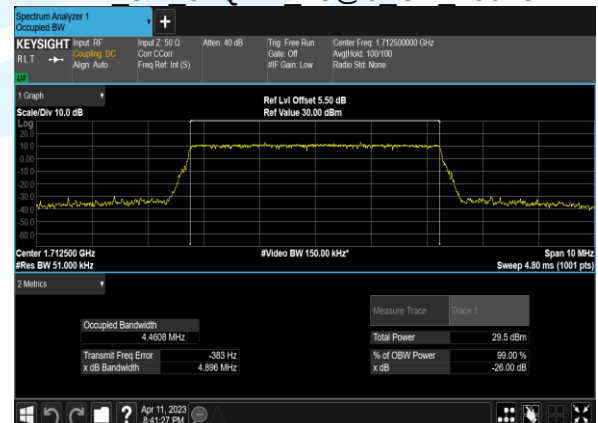
B4 10M 64QAM 50@0 CH 20175



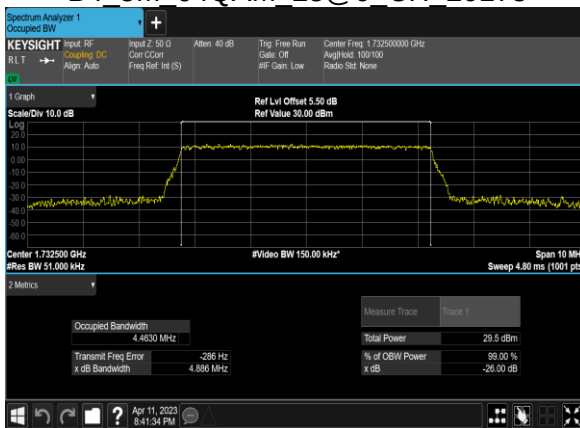
B4 10M 64QAM 50@0 CH 20350



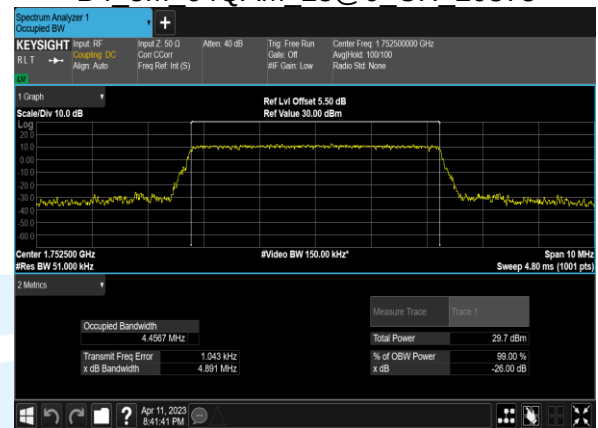
B4 5M 64QAM 25@0 CH 19975



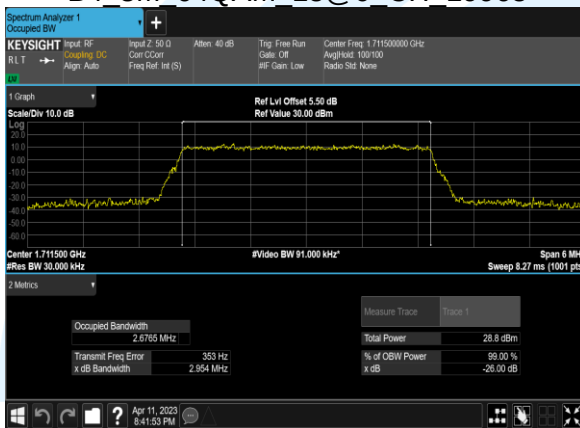
B4 5M 64QAM 25@0 CH 20175



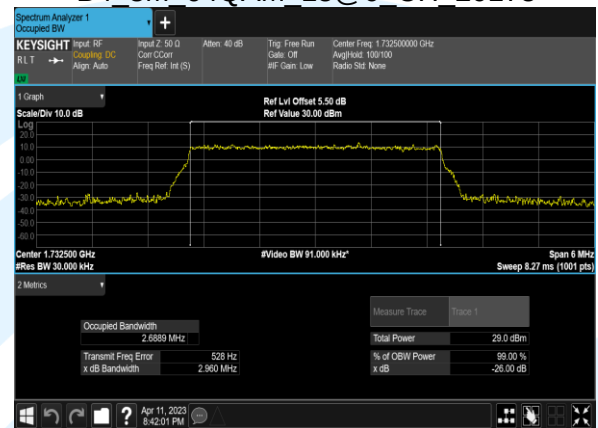
B4 5M 64QAM 25@0 CH 20375



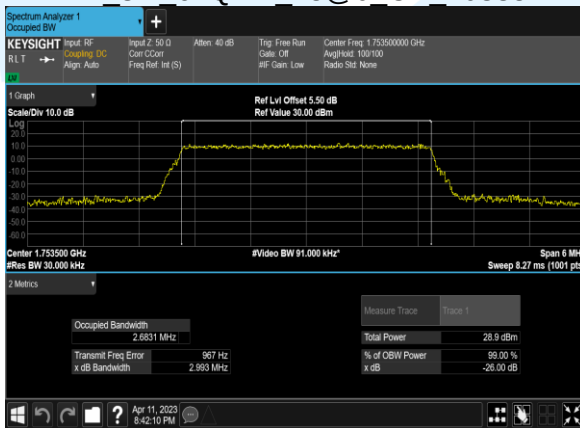
B4 3M 64QAM 15@0 CH 19965



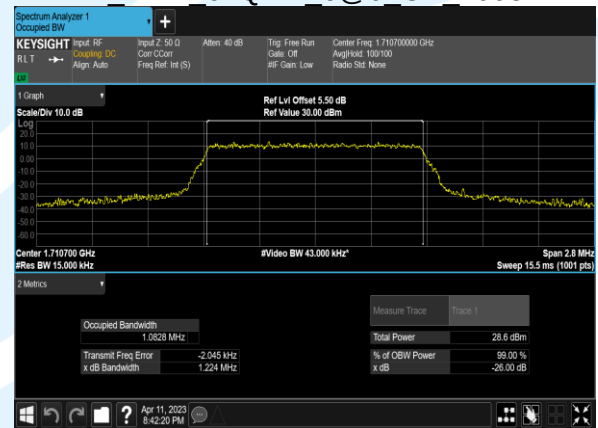
B4 3M 64QAM 15@0 CH 20175



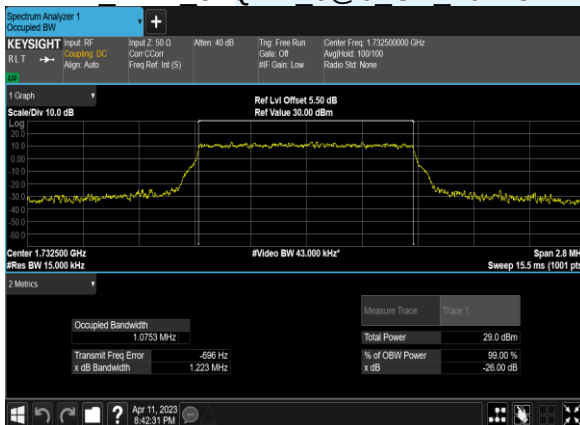
B4 3M 64QAM 15@0 CH 20385



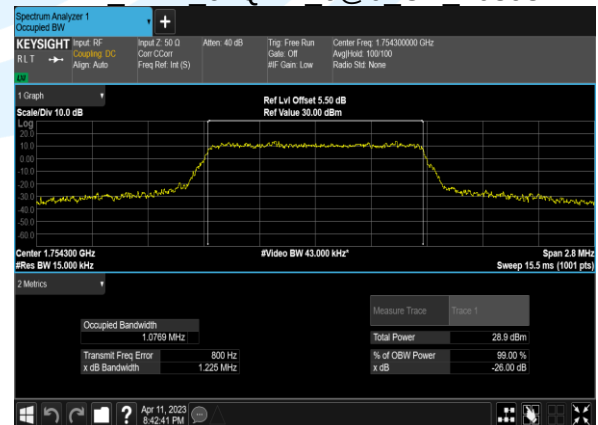
B4 1.4M 64QAM 6@0 CH 19957



B4 1.4M 64QAM 6@0 CH 20175



B4 1.4M 64QAM 6@0 CH 20393



Conducted Spurious Emissions

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
4	20.0	20050	1720.0	QPSK	1@0	-29.83	-13	PASS
4	20.0	20050	1720.0	16QAM	1@0	-29.71	-13	PASS
4	20.0	20175	1732.5	QPSK	1@0	-29.2	-13	PASS
4	20.0	20175	1732.5	16QAM	1@0	-29.18	-13	PASS
4	20.0	20300	1745.0	QPSK	1@0	-29.76	-13	PASS
4	20.0	20300	1745.0	16QAM	1@0	-29.8	-13	PASS
4	15.0	20025	1717.5	QPSK	1@0	-29.17	-13	PASS
4	15.0	20025	1717.5	16QAM	1@0	-29.97	-13	PASS
4	15.0	20175	1732.5	QPSK	1@0	-29.86	-13	PASS
4	15.0	20175	1732.5	16QAM	1@0	-29.99	-13	PASS
4	15.0	20325	1747.5	QPSK	1@0	-29.9	-13	PASS
4	15.0	20325	1747.5	16QAM	1@0	-30.03	-13	PASS
4	10.0	20000	1715.0	QPSK	1@0	-29.86	-13	PASS
4	10.0	20000	1715.0	16QAM	1@0	-29.04	-13	PASS
4	10.0	20175	1732.5	QPSK	1@0	-30.03	-13	PASS
4	10.0	20175	1732.5	16QAM	1@0	-28.81	-13	PASS
4	10.0	20350	1750.0	QPSK	1@0	-29.07	-13	PASS
4	10.0	20350	1750.0	16QAM	1@0	-29.71	-13	PASS
4	5.0	19975	1712.5	QPSK	1@0	-28.97	-13	PASS
4	5.0	19975	1712.5	16QAM	1@0	-29.12	-13	PASS
4	5.0	20175	1732.5	QPSK	1@0	-30.3	-13	PASS
4	5.0	20175	1732.5	16QAM	1@0	-29.28	-13	PASS
4	5.0	20375	1752.5	QPSK	1@0	-29.5	-13	PASS
4	5.0	20375	1752.5	16QAM	1@0	-29.84	-13	PASS
4	3.0	19965	1711.5	QPSK	1@0	-29.22	-13	PASS
4	3.0	19965	1711.5	16QAM	1@0	-29.9	-13	PASS
4	3.0	20175	1732.5	QPSK	1@0	-28.95	-13	PASS
4	3.0	20175	1732.5	16QAM	1@0	-29.04	-13	PASS
4	3.0	20385	1753.5	QPSK	1@0	-29.9	-13	PASS
4	3.0	20385	1753.5	16QAM	1@0	-30.14	-13	PASS
4	1.4	19957	1710.7	QPSK	1@0	-29.96	-13	PASS
4	1.4	19957	1710.7	16QAM	1@0	-29.57	-13	PASS
4	1.4	20175	1732.5	QPSK	1@0	-29.48	-13	PASS
4	1.4	20175	1732.5	16QAM	1@0	-29.58	-13	PASS
4	1.4	20393	1754.3	QPSK	1@0	-27.91	-13	PASS
4	1.4	20393	1754.3	16QAM	1@0	-29.23	-13	PASS
4	20.0	20050	1720.0	64QAM	1@0	-29.59	-13	PASS
4	20.0	20175	1732.5	64QAM	1@0	-30.33	-13	PASS
4	20.0	20300	1745.0	64QAM	1@0	-30.24	-13	PASS
4	15.0	20025	1717.5	64QAM	1@0	-30.09	-13	PASS
4	15.0	20175	1732.5	64QAM	1@0	-29.85	-13	PASS
4	15.0	20325	1747.5	64QAM	1@0	-29.66	-13	PASS
4	10.0	20000	1715.0	64QAM	1@0	-30.34	-13	PASS
4	10.0	20175	1732.5	64QAM	1@0	-29.82	-13	PASS
4	10.0	20350	1750.0	64QAM	1@0	-29.98	-13	PASS
4	5.0	19975	1712.5	64QAM	1@0	-29.39	-13	PASS
4	5.0	20175	1732.5	64QAM	1@0	-30.52	-13	PASS
4	5.0	20375	1752.5	64QAM	1@0	-29.99	-13	PASS
4	3.0	19965	1711.5	64QAM	1@0	-30.12	-13	PASS
4	3.0	20175	1732.5	64QAM	1@0	-29.61	-13	PASS
4	3.0	20385	1753.5	64QAM	1@0	-29.32	-13	PASS
4	1.4	19957	1710.7	64QAM	1@0	-30.02	-13	PASS
4	1.4	20175	1732.5	64QAM	1@0	-30.29	-13	PASS
4	1.4	20393	1754.3	64QAM	1@0	-29.93	-13	PASS